RÉMY D. LEQUESNE, PH.D., P.E., M.ASCE
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Education

Post-Doctoral Research Associate	University of Wisconsin, Madison, WI	2012 - 2013
Ph.D., Structural Engineering	University of Michigan, Ann Arbor, MI	2011
M.S.E., Civil Engineering	University of Michigan, Ann Arbor, MI	2007
B.S.E., Civil Engineering	University of Michigan, Ann Arbor, MI	2005

Employment History

Chair's Council Assistant Professor of Civil, Environmental, and Architectural Engineering	University of Kansas, Lawrence, KS	2018 - present
Assistant Professor	University of Kansas, Lawrence, KS	2013 - 2018
Post-Doctoral Research Associate	University of Wisconsin, Madison, WI	2012 - 2013
Engineering Associate	Wiss, Janney, Elstner Associates, Northbrook, IL	2011 - 2012

Licensures, Certifications, and Professional Training

Licensed Professional Engineer, Kansas State Board of Technical Professions 2015 – Present

Individual Honors and Awards

Chair's Council Assistant Professor of Civil, Environmental, and Architectural Engineering 2018

ACI Young Member Award for Professional Achievement 2017

Miller Scholar Award 2017
Awarded by the University of Kansas School of Engineering for research excellence.

Gould Outstanding Undergraduate Educator Award 2016
Awarded by the University of Kansas School of Engineering for excellence in teaching. One annual awardee nominated and selected by students from among tenure-track engineering faculty.

Wason Medal for Most Meritorious Paper 2016
Awarded by the American Concrete Institute for: *Lequesne, R. D. & Pincheira, J. A. (2014). Proposed Revisions to the Strength-Reduction Factor for Axially Loaded Members.* Concrete International*, 36(9), 43-49.*

Miller Scholar Award 2015
Awarded by the University of Kansas School of Engineering for outstanding overall achievement in teaching, research, and service.

Outstanding Graduate Student Instructor 2011
Awarded by University of Michigan Rackham Graduate School for teaching excellence.

Teaching (Courses Taught at the University of Kansas unless Noted Otherwise)

CE 310 - Strength of Materials (mean evaluation: 4.7/5.0)
CE 563 - Design of Reinforced Concrete Structures (mean evaluation: 4.8/5.0)
CE 764 - Advanced Design of Reinforced Concrete Structures (mean evaluation: 4.8/5.0)
CE 862 - Behavior of Reinforced Concrete Members (mean evaluation: 4.7/5.0)
UW-Madison: CEE 340 - Structural Analysis I (mean evaluation: 4.5/5.0)

Publications

Peer-Reviewed

Journal Articles

Li, C., Lequesne, R. D., & Matamoros, A. (accepted). Girder-Deck Interface: Partial Debonding, Deck Replacement, and Composite Action. *ASCE Journal of Bridge Engineering*.

Sperry, J., Darwin, D., O'Reilly, M., Lepage, A., Lequesne, R. D., Matamoros, A., Feldman, L., Yasso, S., Searle, N., DeRubeis, M., & Ajaam, A. (2018). Conventional and High-Strength Hooked Bars: Detailing Effects. *ACI Structural Journal, 115*(1), 248-258.

Sperry, J., Darwin, D., O'Reilly, M., Lequesne, R. D., Yasso, S., Matamoros, A., Feldman, L., & Lepage, A. (2017). Conventional and High-Strength Hooked Bars - Part 2: Data Analysis. *ACI Structural Journal, 114*(1), 267-276.

Sperry, J., Yasso, S., Searle, N., DeRubeis, M., Darwin, D., O'Reilly, M., Matamoros, A., Feldman, L. R., Lepage, A., Lequesne, R. D., & Ajaam, A. (2017). Conventional and High-Strength Hooked Bars - Part 1: Anchorage Tests. *ACI Structural Journal, 114*(1), 255-265.

Cheng, M.-Y., Hung, S.-C., Lequesne, R. D., & Lepage, A. (2016). Earthquake-Resistant Squat Walls Reinforced with High-Strength Steel. *ACI Structural Journal, 113*(5), 1065-1076.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2016). Seismic Response of Fiber-Reinforced Concrete Coupled Walls. *ACI Structural Journal, 113*(3), 435-445.

Matzke, E. M., Lequesne, R. D., Parra-Montesinos, G. J., & Shield, C. K. (2015). Behavior of Biaxially Loaded Slab-Column Connections with Shear Studs. *ACI Structural Journal, 112*(3), 335-346.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2013). Seismic Behavior and Detailing of High-Performance Fiber-Reinforced Concrete Coupling Beams and Coupled Wall Systems. *ASCE Journal of Structural Engineering, 139*(8), 1362–1370.

Magazine Articles

Lequesne, R. D. & Pincheira, J. A. (2014). Proposed Revisions to the Strength-Reduction Factor for Axially Loaded Members. *Concrete International, 36*(9), 43-49.

Special Publications

Parra-Montesinos, G. J., Wight, J. K., Kopczynski, C., Lequesne, R. D., Setkit, M., Conforti, A., & Ferzli, J. (2017). Earthquake-Resistant Fiber Reinforced Concrete Coupling Beams Without Diagonal Bars. In *SP-310: Fibre-Reinforced Concrete: From Design to Structural Applications FRC 2014: ACI-fib International Workshop* (pp. 10). Farmington Hills, MI: American Concrete Institute.

Parra-Montesinos, G. J., Wight, J. K., Kopczynski, C., Lequesne, R. D., Setkit, M., Conforti, A., & Ferzli, J. (2017). Elimination of Diagonal Reinforcement in Earthquake-Resistant Coupling Beams through Use of Fiber-Reinforced Concrete. In *SP-313: Proceedings of the First ACI & JCI Joint Seminar: Design of Concrete Structures Against Earthquake and Tsunami Disasters* (pp. 8). Farmington Hills, MI: American Concrete Institute.

Cheng, M.-Y., Wibowo, L. S. B., Lequesne, R. D., & Lepage, A. (2016). Deformation Capacity and Strength of Reinforced Concrete Frame Members with High-Strength Materials. In *SP-311: James K. Wight: A Tribute from his Students and Colleagues* (pp. 18). Farmington Hills, MI: American Concrete Institute.

Lequesne, R. D. & Parra-Montesinos, G. J. (2016). A Review of Research on Shear Strength Decay in Members under Load Reversals. In *SP-311: James K. Wight: A Tribute from his Students and Colleagues* (pp. 15). Farmington Hills, MI: American Concrete Institute.

Lequesne, R. D., Setkit, M., Kopczynski, C., Ferzli, J., Cheng, M.-Y., Parra-Montesinos, G. J., & Wight, J. K. (2011). Implementation of High-Performance Fiber Reinforced Concrete Coupling Beams in High-Rise Core-Wall Structures. In *SP-280: Advances in FRC Durability and Field Applications* (pp. 12). Farmington Hills, MI: American Concrete Institute.

Lequesne, R. D., Setkit, M., Parra-Montesinos, G. J., & Wight, J. K. (2010). Seismic Detailing and Behavior of Coupling Beams Incorporating High-Performance Fiber Reinforced Concrete. In *SP-272: Antoine E. Naaman Symposium: Four Decades of Progress in Prestressed Concrete, Fiber Reinforced Concrete and Thin Laminate Composites* (pp. 14). Farmington Hills, MI: American Concrete Institute.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2009). Test of a Coupled Wall with High Performance Fiber Reinforced Concrete Coupling Beams. In *SP-265: Thomas T. C. Hsu Symposium: Shear and Torsion of Concrete Structures* (pp. 14). Farmington Hills, MI: American Concrete Institute.

Conference Proceedings

Huq, M. S., Burgos, E. A. Lequesne, R. D., & Lepage, A. (accepted). High-Strength Steel Bars in T-Shaped Concrete Walls. In *Proceedings: Eleventh U.S. National Conference on Earthquake Engineering, June 2018* (pp. 10). Los Angeles, California.

Ameen, S., Weber-Kamin, A. S., Lequesne, R. D., & Lepage, A. (accepted). Diagonally-Reinforced Concrete Coupling Beams with High-Strength Steel Bars. In *Proceedings: Eleventh U.S. National Conference on Earthquake Engineering, June 2018* (pp. 10). Los Angeles, California.

McVey, M., Bennett, C., Luchies, C., & Lequesne, R. D. (accepted). An Investigation of the Effect of Curriculum-Embedded Peer Mentoring on Student Learning in Two Undergraduate Mechanics Courses. In *Proceedings: American Society for Engineering Education Annual Conference and Exposition, June 2018* (pp. 8). Salt Lake City, Utah.

McVey, M., Bennett, C., Collins, W., Lequesne, R. D., Luchies, C., Wilson, S., Sutley, E., Fadden, M., & Melgares, C. (accepted). Peer Mentoring for All: Investigating the Feasibility of a Curricular-Embedded Peer Mentoring Structure. In *Proceedings: American Society for Engineering Education Annual Conference and Exposition, June 2018* (pp. 18). Salt Lake City, Utah.

Ameen, S., Lequesne, R. D., Lepage, A., & Weber-Kamin, A. S. (2017). Behavior of Diagonally-Reinforced Concrete Coupling Beams with High-Strength Steel Bars. In *Proceedings: 16WCEE - 16th World Conference on Earthquake Engineering* (pp. 8). Santiago, Chile.

Huq, M. S., Lepage, A., Lequesne, R. D., Weber-Kamin, A. S., & Ameen, S. (2017). Influence of Mechanical Properties of High-Strength Steel on Deformation Capacity of Reinforced Concrete Walls. In *Proceedings: 16WCEE - 16th World Conference on Earthquake Engineering* (pp. 8). Santiago, Chile.

Not Peer-Reviewed

Datasets

Huq, M. S., Lequesne, R. D., & Lepage, A. (2018). *Earthquake-Resistant T-shaped Concrete Walls with High-Strength Steel Bars*. DesignSafe-CI. DOI: 10.17603/DS2738Q

Conference Proceedings

Tameemi, W., Perez-Irizarry, A. L., Dudnik, V., Lequesne, R. D., & Parra-Montesinos, G. J. (2016). Correlations between Results from Compressive, Flexural, and Tensile Tests of Steel Fiber Reinforced Concrete. In *Proceedings: BEFIB2016 - 9th Rilem International Symposium on Fiber Reinforced Concrete*. Vancouver, Canada.

Monfardini, L., Lequesne, R. D., Minelli, F., Parra-Montesinos, G. J., & Pincheira, J. A. (2015). Stability of Reinforcing Bars in Steel Fiber Reinforced Concrete Flexural Members. In *Proceedings: HPFRCC 7 - High Performance Fiber Reinforced Cement Composites*. Stuttgart, Germany.

Parra-Montesinos, G. J., Wight, J. K., Kopczynski, C., Lequesne, R. D., Setkit, M., Conforti, A., & Ferzli, J. (2014). High-Performance Fiber Reinforced Concrete Coupling Beams: From Research to Practice. In *Proceedings: Tenth U.S. National Conference on Earthquake Engineering*. Anchorage, Alaska.

Lequesne, R. D., Setkit, M., Parra-Montesinos, G. J., & Wight, J. K. (2011). High-Strength Steel Fibers as Replacement for Diagonal and Confinement Reinforcement in Coupling Beams. In *Proceedings of 9th International Symposium on High Performance Concrete – Design, Verification and Utilization.* Christchurch, New Zealand.

Parra-Montesinos, G. J., Wight, J. K., Lequesne, R. D., & Setkit, M. (2011). A Summary of Ten Years of Research on HPFRC Coupling Beams. In *High Performance Fiber-Reinforced Cement Composites (HPFRCC6) Proceedings.* Ann Arbor, MI.

Wight, J. K., Parra-Montesinos, G. J., & Lequesne, R. D. (2011). The Use of High-Performance Fiber-Reinforced Concrete in the Design of Coupled Wall Systems for Earthquake Motions. In *fib Symposium 2011, Proceedings*. Prague, Czech Republic.

Lequesne, R. D., Wight, J. K., & Parra-Montesinos, G. J. (2010). High-Performance Fiber-Reinforced Concrete Coupled-Wall Systems: Design and Behavior. In *14th European Conference on Earthquake Engineering Proceedings.* Ohrid, Republic of Macedonia.

Lequesne, R. D., Wight, J. K., & Parra-Montesinos, G. J. (2010). Seismic Detailing and Behavior of Coupled-Wall Systems with High-Performance Fiber-Reinforced Concrete. In *9th National and 10th Canadian Conference on Earthquake Engineering Proceedings.* Toronto, CA.

Lequesne, R. D., Wight, J. K., & Parra-Montesinos, G. J. (2010). Large-Scale Testing of High-Performance Fiber-Reinforced Concrete Coupled Walls. In *Joint Conference Proceedings of 7CUEE & 5ICEE*. Tokyo, Japan.

Wight, J. K., Parra-Montesinos, G. J., & Lequesne, R. D. (2009). The Design of Coupled Wall Systems for Earthquake Motions with High-Performance Fiber Reinforced Concrete. In *Proceedings of WCCE-ECCE-TCCE Joint Conference Earthquake & Tsunami*. Istanbul, Turkey.

Wight, J. K. & Lequesne, R. D. (2008). Earthquake-Resistant Design of Coupling Beam Elements Incorporating High-Performance Fiber Reinforced Concrete. In *Proceedings of International Seminar on Seismic-Resistant Design of Reinforced Concrete Structures.* Bogota, D.C., Columbia.

Wight, J. K., Parra-Montesinos, G. J., & Lequesne, R. D. (2007). High-Performance Fiber Reinforced Concrete for Earthquake-Resistant Design of Coupled Wall Systems. In *Proceedings of Fifth International RILEM Workshop, High Performance Fiber-Reinforced Cement Composites (HPFRCC5).* Mainz, Germany.

Reports

Huq, M. S., Weber-Kamin, A. S., Ameen, S., Lequesne, R. D., & Lepage, A. (2017). *High-Strength Steel Bars in Reinforced Concrete Walls: Influence of Steel Mechanical Properties on Deformation Capacity*. (pp. 318). Charles Pankow Foundation.

Lequesne, R. D., O'Reilly, M., Darwin, D., Lepage, A., Al-Sabawy, A., Guillen, E., & Spradling, D. (2017). *Advanced Nuclear Technology: Use of High-Strength Headed Bars as Shear Reinforcement for Structural Concrete*. (pp. 261). Electrical Power Research Institute. https://www.epri.com/#/pages/product/3002010486/
Also published as: Lequesne, R. D., O'Reilly, M., Darwin, D., Lepage, A., Al-Sabawy, A., Guillen, E., & Spradling, D. (2018). *SM Report No. 126: Use of High-Strength Headed Bars as Shear Reinforcement*. (pp. 261). University of Kansas Center for Research. http://hdl.handle.net/1808/25728

Li, C., Lequesne, R. D., & Matamoros, A. (2017). *KTRAN: KU-15-1: Composite Action in Prestressed NU I-Girder Bridge Deck Systems Constructed with Bond Breakers to Facilitate Deck Removal*. (pp. 188). Kansas Department of Transportation.

Shao, Y., Darwin, D., O'Reilly, M., Lequesne, R. D., Ghimire, K., & Hano, M. (2016). *SM Report No. 117: Anchorage of Conventional and High-Strength Headed Reinforcing Bars*. (pp. 334). University of Kansas Center for Research. http://hdl.handle.net/1808/21738

Carlton, K. & Lequesne, R. D. (2016). *SL Report No. 16-2: Charts for Preliminary Selection of NU Girder Sections Based on Kansas Department of Transportation LRFD Design Guidelines for Prestressed Concrete Beams*. (pp. 38). University of Kansas Center for Research. http://hdl.handle.net/1808/20904

Sperry, J., Darwin, D., O'Reilly, M., & Lequesne, R. D. (2015). *SM Report No. 115: Anchorage Strength of Conventional and High-Strength Hooked Bars in Concrete*. (pp. 281). University of Kansas Center for Research. http://hdl.handle.net/1808/20476

Tameemi, W. & Lequesne, R. D. (2015). *SM Report No. 114: Correlations between Compressive, Flexural, and Tensile Behavior of Self-Consolidating Fiber Reinforced Concrete*. (pp. 260). University of Kansas Center for Research. http://hdl.handle.net/1808/19387

Sperry, J., Al-Yasso, S., Searle, N., DeRubeis, M., Darwin, D., O'Reilly, M., Matamoros, A., Feldman, L., Lepage, A., Lequesne, R. D., & Ajaam, A. (2015). *SM Report No. 111: Anchorage of High-Strength Reinforcing Bars with Standard Hooks*. (pp. 260). University of Kansas Center for Research. http://hdl.handle.net/1808/19742

Matzke, E., Lequesne, R. D., Shield, C. K., & Parra-Montesinos, G. J. (2013). *Drift Capacity of Slab-Column Connections Reinforced with Headed Shear Studs and Subjected to Combined Gravity Load and Biaxial Displacements*. (pp. 256). Charles Pankow Foundation. http://dx.doi.org/10.17603/DS2RP4P

Lequesne, R. D. (2011). *Behavior and Design of High-Performance Fiber-Reinforced Concrete Coupling Beams and Coupled-Wall Systems*. Ann Arbor, MI: University of Michigan. pp. 277. Ph.D. Dissertation. http://hdl.handle.net/2027.42/86316

Oral Presentations (name of presenter underlined)

Invited

Lequesne, R. D. & Lepage, A. (2018, March 1). *High-Strength Steel in Structural Concrete: From Research to Building Codes*. 63rd Structural Engineering Conference, Lawrence, Kansas.

Lequesne, R. D. (2014, June 12). *Strut-and-Tie Models for Shear Design: AASHTO Specifications*. Kansas ASCE Structural Group Meeting, Topeka, Kansas.

Lequesne, R. D. (2014, March 6). *Fiber-Reinforced Concrete and Earthquake-Resistant Design*. 59th Annual Structural Engineering Conference, Lawrence, Kansas.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2013, March 28). *Behavior and Design of High-Performance Fiber Reinforced Concrete Coupling Beams and Coupled Wall Systems*. University of Nebraska, Lincoln, Nebraska.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2013, February 28). *Behavior and Design of Coupling Beams and Coupled Walls Constructed with High-Performance Fiber Reinforced Concrete*. University of Kansas, Lawrence, Kansas.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2013, February 7). *High-Performance Fiber Reinforced Concrete Coupling Beams and Coupled Wall Systems: Behavior and Design*. University of Minnesota, Duluth, Minnesota.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2011, September 16). *Behavior and Design of High-Performance Fiber Reinforced Concrete Coupling Beams and Coupled Wall Systems*. Structural Engineers Association of Ohio, Annual Meeting, Columbus, Ohio.

Other

Pincheira, J. A., Olson, C., & Lequesne, R. D., (2017, November). *Vibraciones de Pisa en un Edificio con Losas Aligeradas*. 5th International Congress of Engineering Materials and Structures, Universidad Militar Nueva Granada, Bogota, Colombia.

Yasso, S., Lepage, A., Darwin, D., Lequesne, R. D., & O'Reilly, M. (2017, March). *Development Length of High-Strength Bars in Tension*. American Concrete Institute Convention, Detroit, Michigan.

Lequesne, R. D., Tameemi, W., Perez-Irizarry, A. L., Dudnik, V., & Parra-Montesinos, G. J. (2016, September 20). *Correlations between Results from Compressive, Flexural, and Tensile Tests of Steel Fiber Reinforced Concrete*. BEFIB2016 - 9th International Symposium on Fiber Reinforced Concrete, Vancouver, Canada.

Lequesne, R. D., Darwin, D., Lepage, A., O'Reilly, M., Al-Sabawy, A., & Spradling, D. (2016, April 18). *Use of Headed Grade 80 Bars as Shear Reinforcement*. ACI Convention, Committee 445 Meeting, Milwaukee, Wisconsin.

Parra-Montesinos, G. J., Lequesne, R. D., Monfardini, L., Minelli, F., & Pincheira, J. A. (2015, June 2). *Stability of Reinforcing Bars in Steel Fiber Reinforced Concrete Flexural Members*. High Performance Fiber Reinforced Cementitious Composites 7 (HPFRCC 7), Stuttgart, Germany.

Cheng, M.-Y., Wibowo, L. S. B., Lequesne, R. D., Lepage, A., & Giduquio, M. B. (2014, October 27). *Deformation Capacity and Strength of Reinforced Concrete Frame Members Constructed with High-Strength Materials*. American Concrete Institute Convention, Session: James K. Wight: A Tribute from His Students and Colleagues, Washington, D.C.

Lequesne, R. D. & Parra-Montesinos, G. J. (2014, October 26). *Understanding Shear Behavior under Load Reversals through James K. Wight's Research*. American Concrete Institute Convention, Session: James K. Wight: A Tribute from His Students and Colleagues, Washington, D.C.

Lequesne, R. D., Wight, J. K., & Parra-Montesinos, G. J. (2010, July 28). *Seismic Detailing and Behavior of Coupled Wall Systems with High-Performance Fiber-Reinforced Concrete*. 9th National and 10th Canadian Conference on Earthquake Engineering, Toronto, Canada.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2010, March 20). *Seismic Response of High-Performance Fiber-Reinforced Concrete Coupled Walls*. 6th International Workshop on Structural Concrete in the Americas, Chicago, Illinois.

Lequesne, R. D., Wight, J. K., & Parra-Montesinos, G. J. (2008, November 3). *Earthquake Resistant Design of Coupled Wall Systems Incorporating High-Performance Fiber-Reinforced Concrete*. American Concrete Institute Convention, Session: ACI Student Fellowships and Young Member Initiatives, St. Louis, Missouri.

Lequesne, R. D., Parra-Montesinos, G. J., & Wight, J. K. (2008, March 31). *High Performance Fiber Reinforced Concrete in Earthquake-Resistant Coupled Wall Systems*. American Concrete Institute Convention, Session: Part 1: Session Honoring Antoine E. Naaman: Four Decades of Progress in Fiber Reinforced Concrete, Los Angeles, California.

Lequesne, R. D., Wight, J. K., & Parra-Montesinos, G. J. (2007, July 10). *High Performance Fiber Reinforced Concrete for Earthquake Resistant Design of Coupled Wall Systems*. Fifth International RILEM Workshop, High Performance Fiber-Reinforced Cement Composites (HPFRCC5), Mainz, Germany.

Grants

External Research Funding

Lequesne, R. D. (Principal), Collins, W. (Co-Principal), Darwin, D. (Co-Principal), "Development of Precision and Bias Statement for ASTM A1061," Precast/Prestressed Concrete Institute, $105,288 (October 2017 - September 2018).

Lepage, A. (Principal), Lequesne, R. D. (Co-Principal), "Reinforced Concrete Coupling Beams with High-Strength Steel Bars," Charles Pankow Foundation, $150,000 (January 2017 - September 2018).

Lequesne, R. D. (Principal), Collins, W. (Co-Principal), "Synthesis of Rating Methodologies for Concrete Bridges without Plans," Kansas Department of Transportation, $39,489 (February 2018 - August 2018).

Lepage, A. (Principal), Lequesne, R. D. (Co-Principal), "Deformation Capacity of Concrete Structural Walls Reinforced with ASTM A1035 Steel Bars," MMFX Technologies Corporation, $55,000 (July 2016 - December 2017).

Lepage, A. (Principal), Lequesne, R. D. (Co-Principal), "Deformation Capacity of Concrete Structural Walls Reinforced with Grade 100 Steel Bars," CMC, $50,000 (September 2016 - August 2017).

Darwin, D. (Principal), Lequesne, R. D. (Co-Principal), Lepage, A. (Co-Principal), O'Reilly, M. (Co-Principal), "Use of Headed Bars as Shear Reinforcement," Electric Power Research Institute, $400,000 (August 2014 - August 2017).

Lequesne, R. D. (Principal), Matamoros, A. (Co-Principal), "Composite Action in Prestressed NU I-Girder Bridge Deck Systems Constructed with Bond Breakers to Facilitate Deck Removal," Kansas Department of Transportation, $83,000 (August 2014 - April 2017).

Lepage, A. (Principal), Lequesne, R. D. (Co-Principal), "High-Strength Steel Bars in Reinforced Concrete Walls: Influence of Mechanical Properties of Steel on Deformation Capacity," Charles Pankow Foundation, $112,000 (November 2014 - October 2016).

Other Funding

Lequesne, R. D. (Principal), "Quantification of Fiber Distribution and Orientation in Fiber Reinforced Concrete Materials," University of Kansas, $7,951 (September 2015 - August 2017).

Lequesne, R. D. (Principal), "Pilot Study: Deformation Capacity of Interior Slab-Column Connections with Openings," University of Kansas, $7,280, (July 2016 - June 2017).

Fadden, M. (Principal), Lequesne, R. D. (Co-Principal), McVey, M. (Co-Principal), "University of Kansas TRESTLE Course Transformation Grant: CE 310 - Strength of Materials Laboratory Transformation," Sub-Award from National Science Foundation Division of Undergraduate Education Award #1525775, $3,750 (October 2016 - May 2017).

Graduate Student Supervision

Ph.D.

T. Mudaliar, *Lightweight, Efficient, and Architecturally Unique Structures Enabled by Additive Manufacturing and Structural Optimization*, expected fall 2019. (Co-Chair)

A. Al-Sabawy, *Headed and High-Strength Bars as Shear Reinforcement in Beams*, expected fall 2018. (Chair)

M. S. Huq, *Deformation Capacity of Slender Reinforced Concrete Structural Walls with High-Strength Steel Bars*, expected summer 2018. (Co-Chair)

S. Ameen, *Cyclic Response of Concrete Coupling Beams Diagonally-Reinforced with High-Strength Steel Bars*, expected summer 2018. (Co-Chair)

C. Li, *Composite Action in Prestressed NU I-Girder Bridge Deck Systems Constructed with Bond Breakers to Facilitate Deck Removal*, completed August 2017. (Chair)

M.S. Thesis Option

W. Tameemi, *Correlations between Compressive, Flexural, and Tensile Behavior of Self-Consolidating Fiber Reinforced Concrete*, completed September 2015. (Chair)

M.S. Project Option

A. Poudel, *Effect of Axial Restraint on Coupling Beam Strength and Deformation Capacity*, expected summer 2018. (Chair)

K. Carleton, *Charts for Preliminary Selection of NU Girder Sections Based on Kansas Department of Transportation LRFD Design Guidelines for Prestressed Concrete Beams*, completed May 2016. (Chair)

C. Lomonaco, *Influence of Bar Size on Shear Strength of Reinforced Concrete Beams without Stirrups*, completed May 2015. (Chair)

Service

National Professional Service

Chair

ACI Committee 352 - Task Group 2 - Beam-Column Joints & Connections. (Since 2016)

ACI Committee 408 - Development and Splicing of Deformed Bars. (Since 2018)

Secretary

ACI Committee 408 - Development and Splicing of Deformed Bars. (2012 - 2018)

Voting Member

ACI Sub-Committee 318-J - Joints and Connections. (Since 2014)

ACI Committee 352 - Joints and Connections in Monolithic Concrete Structures. (Since 2014)

ACI Committee 352 - Task Group 1 - Slab-Column Joints & Connections. (Since 2014)

Associate Member

ACI Committee 133 - Disaster Reconnaissance. (Since 2017)

ACI Committee 445 - Shear and Torsion (Sub-Committee 445-C - Punching Shear). (Since 2014)

ACI Committee 374 - Performance-Based Seismic Design of Concrete Buildings. (Since 2008)

ACI Committee 544 - Fiber-Reinforced Concrete. (2014 - 2017)

Representative for the University of Kansas

Consortium of Universities for Research in Earthquake Engineering. (2014 - 2016)

Reconnaissance Activities

ACI reconnaissance team member, September 19, 2017 Central Mexico Earthquake

Session Organizer/Moderator

Co-Organizer of three sessions titled “Bond in Concrete” at the ACI Convention, and co-moderator of third session (2017)

Reviewer (Proposals)

National Science Foundation, Engineering for Civil Infrastructure Program (2018)

National Science Foundation, Engineering for Natural Hazards Program (2016)

Reviewer (Journals)

ACI Concrete International

ACI Journal of Materials Engineering

ACI Journal of Structural Engineering

ACI Special Publications

ASCE Journal of Materials in Civil Engineering

ASCE Journal of Structural Engineering

Canadian Journal of Civil Engineering

EERI Earthquake Spectra

Engineering Structures

Journal of Building Engineering

Professional Memberships

American Concrete Institute (ACI) (Since 2007)

American Society of Civil Engineers (ASCE)
Member (Since 2016)
Associate Member (2003 - 2010, 2014 - 2015)

Earthquake Engineering Research Institute (EERI) (Since 2014)

School of Engineering

Member

Academic Standards Committee. (Appointed) (2015 - 2016)

Other

Instructor at Project Discovery Summer Camp. (2015, 2017)

Judge for Graduate Engineering Association Research Competition. (2014, 2016)

Civil, Environmental, and Architectural Engineering Department

Faculty Advisor

American Society of Civil Engineers Student Chapter. (Since 2014)

American Concrete Institute Student Chapter. (2013 - 2016)
Outstanding Student Chapter Award 2015
Excellent Student Chapter Award 2014

Member

Structural Engineering Conference Planning Committee. (Since 2013)

Student Retention Committee. (2013 - 2016)

Search Committee - Laboratory Technician. (2016)

Search Committee - Three Faculty Positions. (2014 - 2015)

External Member

Yearly Internal ABET Review of Geomaterials Group. (2016)

Yearly Internal ABET Review of Transportation Group. (2016)

Service Presentations

Lequesne, R. (2018). *Strength of Materials*, Departmental F.E. Exam Review.

Lequesne, R. (2016). *Strength of Materials*, Departmental F.E. Exam Review.

Lequesne, R. (2016). *Why Structural Engineering?* KU Architectural Engineering Institute.

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